

Project co-financed by the European Regional Development Fund



Booklet of the Renewable Energy Community MPs pilot activities

COMPOSE | PEGASUS | STORES | FORBIOENERGY | PRISMI | LOCAL4GREEN

Scientific Research Centre Bistra Ptuj Lead Partner Urban Ecology Agency of Barœlona Zenica Development Agency ZEDA

Environment Park Spa

Axelera

Patras Science Park S.A.













Introduction

The aim of this document is to present, distribute and share the activities of the projects belonging to the MED RES Community activities, on the MED territory.

At the beginning of the document, a map, localizing all the projects activities is available in order to have a general picture of the MED RES Community and of its projects.

In the first part of this booklet, the 6 projects: LOCAL4GREEN, COMPOSE, StoRES, PEGASUS, PRISMI and ForBioEnergy are briefly exposed.

The second part of the document is dedicated to present the project activities, characterized into 3 transversal categories:

- 1. Pilot and innovation actions
- 2. Governance and planning tools
- 3. Policies

Some projects are more dedicated to single aspects, such as COMPOSE, PEGASUS, StoRES and LO-CAL4GREEN, instead of other projects, such as PRISMI and ForBioEnergy that are dedicated to more than a single aspect, using a more transversal strategy to achieve the goal.

The first version of this booklet will be revised in collaboration with all the projects lead partners in order to arrive to a final version for October 2018.







Pilot activities location



RES COMMUNITY PILOT MAP





Pilots and innovative actions

N°	Project	Title	Topics	Location
1	COMPOSE	Renewables connecting municipalities through their joint local potential	Energy efficiency - Biomass	Slovenia
2	COMPOSE	Energy savings and renewable invest potential in public buildings of Lakatamia Municipality	Energy efficiency – Citizens awareness	Cyprus
3	COMPOSE	From energy savings to RES investments	Energy efficiency – Citizens awareness	France
4	COMPOSE	Awareness campaign to foster social acceptance and local investments of small scale RES	Citizens awareness – Web assessment tool	Greece
5	COMPOSE	Biomass potential in rural island communities	Citizens awareness – Biomass	Greece
6	COMPOSE	From UCO (Used Cooking Oil) to biodiesel	Citizens awareness – Biodiesel – UCO management	Greece
7	COMPOSE	Greening Capalbio energy	Citizens awareness – PV	Italy
8	COMPOSE	Energy upgrading in historical rural municipalities	PV - Citizens awareness	Italy
9	COMPOSE	RES in rural environments - Sesimbra	PV – Energy efficiency - Citizens awareness	Portugal
10	COMPOSE	RES in rural environments - Biovilla	Citizens awareness – Solar energy	Portugal
11	COMPOSE	From EE measures to RES investments	Citizens awareness – RES – Energy Efficiency	Spain
12	COMPOSE	Development of Energy Investment Plan	RES - Energy Investment Plan	Croatia
13	COMPOSE	Fostering RES awareness through School Programmes	Citizens awareness – Biomass – Energy efficiency	Albania
14	COMPOSE	RES for Municipality development	Biomass	Bosnia and Herzegovina
15	PEGASUS	Municipality of Potenza	CHP – Microgrid – Swimming pool	Italy
16	PEGASUS	Mega Evydrio	Microgrid – PV – Batteries - Residential	Greece
17	PEGASUS	Gozo Island	Microgrid – PV – Storage - Residential	Malta
18	PEGASUS	Saint-Julien-en-Quint solution	Rural Area – Self-consomption	France
19	PEGASUS	Sports Park Ruše	PV – Storage – Sport facility	Slovenia
20	PEGASUS	University of Cyprus	Nanogrid – PV – Storage – Electrical Vehicle – Smart meters	Cyprus
21	PEGASUS	Preko Island	Microgrig – PV	Croatia
22	STORES	Battery Storage System (BSS) with Inverter and Metering System Installation	PV – Storage - Metering	Greece
23	STORES	Pilots / Spain	?	Spain
24	STORES	StoRES_Pilots_CY	RES production – storage - Residential	Cyprus
25	STORES	StoRES_Pilots_MoU	PV – Storage - residential	Italy





Governance and planning tools

N°	Project	Title	Topics	Kind of tool	Location
1	FORBIOENERGY	Barriers and potential solutions for increasing biomass production in the protected areas	Legislative, administrative, technical, social and economic barriers	Study – State of the art	Italy – Slovenia – Spain - Croatia
2	FORBIOENERGY	Planning biomass-based energy production at regional and sub-regional level in protected areas	Biomass district - Energy supply chains - Environmental limitations - Socio-economic development	Planning & Mapping GIS Tool	Italy – Slovenia - Croatia
3	FORBIOENERGY	Threats and benefits of increase the biomass use in the protected areas	Environmental and socio- economic risks and benefits assessment	Assessment tool	Italy – Slovenia – Spain - Croatia
4	FORBIOENERGY	Action plan for a new regulatory framework and permit route in the protected areas	Regulatory framework - Administrative and technical barriers removal	Governance tool	Italy – Slovenia – Spain - Croatia
5	FORBIOENERGY	Biomass oriented forest planning at local level in the protected areas	Forest management plan – Biomass - Energy and heat production	Planning tool	Italy – Slovenia – Spain - Croatia
6	FORBIOENERGY	Planning sustainable forest- wood-energy supply chain in the protected areas	Environmental impact - Efficient biomass production and extraction systems - Sustainable management models	Planning tool	Italy – Slovenia – Spain - Croatia
7	FORBIOENERGY	Quality requirements of biomass from the protected areas	Traceability protocol	Management tool	Italy – Slovenia – Spain - Croatia
8	PRISMI	Toolkit/Methodology for MED Islands	RES potential - Energy scenarios modelling - Sustainable Energy Action Plans	Mapping GIS, Planning and Governance Tool	ltaly – Croatia – Greece – Malta - Cyprus

Policies

N°	Project	Title	Topics	Kind of tool	Location
1	LOCAL4GREEN	Designing of local fiscal policies to promote RES	Green local fiscal policy	Planning Tool + Governance Tool	Spain – Albania – Cyprus – Croatia – Greece – Malta – Portugal – Slovenia - Italy





I – GENERAL PRESENTATION OF THE PROJECTS



Rural Communities engaged with positive energy

SHORT DESCRIPTION

COMPOSE shall contribute to an increased sustainable RES planning capacity at the decisionmaking and planning-expert levels, whose main objective is to promote new business models and technology development to compose green economy by connecting local potentials to sustainable energy supply chains. In its nutshell, it builds on existing experience and know-how from previous projects and initiatives. By promoting the development of local business in combination with the development of local added value chains, it provides a RES development planning synthesis model and therefore the increase of renewable energy mix in selected areas

COUNTRIES INVOLVED

Slovenia, Spain, France, Albania, Italy, Cyprus, Portugal, Croatia, Monte Negro, Bosnia and Herzegovina, Greece.

PARTNERS INVOLVED

- > Kmetijsko gozdarski Zavod Maribor,
- > Ajuntament de Granollers, Geres,
- > Agricultural university of Tirana,
- > Kyoto club,
- > Lakatamia municipality,
- > Ena Energy agency of Arrabida,
- > REA North,
- > ISSP- Institute for strategic studies and prognoses,
- > Municpality Srebrenik,
- > Technical University of Crete

BUDGET ERDF/IPA AND TOTAL BUDGET

2,2 mio € / 0,3 mio €







Promoting Effective Generation And Sustainable USe of electricity

SHORT DESCRIPTION	COUNTRIES INVOLVED
PEGASUS is a	Italy, Spain, France, Slovenia, Croatia, Greece, Malta, Cyprus, Belgium.
where a group of public	PARTNERS INVOLVED
and private Bodies involved in the energy sector try to design the business model of the microgrids in the coming future power system. The goal is achieved through the simulation in 7 sites of the microgrid behavior and interaction of its members: consumers, prosumers	 Municipality of Potenza CRES - Centre for Renewable Energy Sources and Savings; MIEMA - Malta Intelligent Energy Management Agency; AURA - EE, Auvergne Rhone-Alpes-Energy and Environment; DeMEPA - Design and Management of Electrical Power Assets; ENERGAP- Energy Agency of Podravje; Municipality of Preko; FOSS - Research Centre for Sustainable Energy - University of Cyprus; ABENGOA - Abengoa Innovación; FEDARENE - European Federation of Agencies and Regions for Energy and the Environment.
and prosumagers. Currently the energy	BUDGET ERDF/IPA AND TOTAL BUDGET
data are collected and analyzed.	1.868.512 €



Giampiero Cautela, Project Leader, Municipality of Potenza



PEGASUS project



StoRES

Promotion of higher penetration of Distributed PV through storage for all

SHORT DESCRIPTION	COUNTRIES INVOLVED
StoRES foresees the	Cyprus, Greece, Portugal, Spain, Slovenia, France, Italy
optimal policy for the	PARTNERS INVOLVED
effective integration of photovoltaics (PV) and energy storage systems (ESS) via testing smart solutions in 6 MED islands and rural areas. It aims to increase PV penetration in the energy mix of islands and rural areas in the MED by integrating PV and ESS under an optimal market policy by removing the constraints of grid reliability and RES intermittency.	Active partners: > University Of Cyprus > Aristotle University of Thessaloniki > AREAL - Regional Energy and Environment Agency of Algarve > SARGA Government Of Aragon > Municipality Of Slovenska Bistrica > Regional Energy And Environment Agency In Rhône-Alpes > Ministry Of Energy, Commerce, Industry And Tourism > Electricity Authority Of Cyprus/Distribution System Operator > Municipality Of Ussaramanna Associated partners: > University Of Cagliari > Cyprus Energy Regulatory Authority > Mediterranean Technology Platform For Smart Grids
	 Autonomous Region Of Sardinia – Regional Planning Centre Federacion Aragonesa De Municipios Comarcas Y Provincias
	 Ministry Of Environment And Energy/ General Secretariat Of Energy And Mineral Raw Materials/General Directorate Of Energy/Directorate Of Renewable Energy Sources And Electricity

- > Municipality Of Kozani
- > EDP Distribuicao Energia S.A.
- > DIECHEIRISTIS ELLINIKOU DIKTYIOU ELEKTRIKIS ENERGEIAS AS
- > SODO Electricity Distribution System Operator, D. O. O.

BUDGET ERDF/IPA AND TOTAL BUDGET

2.000.000 € - EU funding €1.7m



Dr. George E. Georghiou, Associate Professor at FOSS Research Centre for Sustainable Energy/PV Technology Lab, University of Cyprus, Project Coordinator



StoRES partners









ForBioEnergy

Forest Bioenergy in the Protected Mediterranean Areas

SHORT DESCRIPTION

COUNTRIES INVOLVED

ForBioEnergy develops innovative planning tools and operating procedures aimed to exploit the full potential of biomass in protected areas reducing the barriers that hinder the development of the bio-energy and at the same time preserving the biodiversity of the natural areas. Project actions are implemented through a participatory and shared process that involves the public and private key actors.

Italy, Slovenia, Spain, Croatia

PARTNERS INVOLVED

- Sicily Region Councillorship for Agriculture, Rural Development and Mediterranean Fishing – Regional Department for the Rural and Territorial Development
- > Municipality of Petralia Sottana
- > Enviland ltd
- > Slovenian Forestry Institute
- > Regional Development Agency Green Kast Ltd
- > The Forestry Municipalities Association of Comunitat Valenciana
- > Zadar County
- > Public Institution Nature Park Velebit

BUDGET ERDF/IPA AND TOTAL BUDGET

2.048.847,48 €



Mr. Massimo PIZZUTO ANTINORO Sicily Region – Councillorship for Agriculture, Rural Development and Mediterranean Fishing – Regional Department for the Rural and Territorial Development, Project Coordinator



ForBioEnergy project



PRISMI

Promoting RES integration for smart Mediterranean islands

SHORT DESCRIPTION

PRISMI aims to support local authorities of MED islands in planning their transition towards

low carbon and climate change resilient energy

systems in a cost-

effective way. To do

so, PRISMI developed

an integrated toolkit

RES for the targeted

elaboration of energy scenarios and techno-

economic feasibility

analysis. A network has been established to

transition.

power up the ambitious

to assess and map

COUNTRIES INVOLVED

Italy, Greece, Croatia, Cyprus, Malta

PARTNERS INVOLVED

- > Sapienza University of Rome
- > Centre for Renewable Energy Sources and Saving
- > University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture
- > Cyprus Energy Agency
- > Piraeus University of Applied Sciences
- > Malta Intelligent Energy Management Agency
- > Municipality of Favignana Managing Body of Egadi Islands Marine Protected Area

BUDGET ERDF/IPA AND TOTAL BUDGET

599.573€



Davide Astiaso Garcia, project coordinator, La Sapienza University



PRISMI project



 $\langle \rangle$







LOCAL4GREEN

LOCAL Policies for GREEN Energy

SHORT DESCRIPTION

COUNTRIES INVOLVED

LOCAL4GREEN supports Local Authorities to design and implement innovative fiscal policies, intended to promote the use of renewable energy sources both in the public and private sector. These local fiscal policies will be implemented in pilot municipalities located in rural territories and islands of MED regions.

For now, LOCAL4GREEN has produced a handbook with the participative methodology to formulate the fiscal policies to promote RES and, following this handbook, each partner has developed the design of fiscal policies

to implement in their pilot municipalities.

Spain, Malta, Croatia, Greece, Italy, Slovenia, Cyprus, Portugal and Albania.

PARTNERS INVOLVED

- > Valencian Federation of Municipalities and Provinces (FVMP), Spain (Lead Partner).
- > MUSOL Foundation, Spain.
- > Malta Intelligent Energy Management (MIEMA), Malta.
- > North-West Croatia Regional Energy Agency (REGEA), Croatia.
- > Development Agency of Eastern Thessaloniki's Local Authorities (ANATOLIKI), Greece.
- > Lazio Region Association of Cities and Municipalities (ANCI Lazio), Italy.
- > Building and Civil Engineering Institute (ZRMK), Slovenia.
- > Cyprus Energy Agency (CEA), Cyprus.
- > University of Algarve, Portugal.
- > Association of Albanian Municipalities, Albania.

BUDGET ERDF/IPA AND TOTAL BUDGET

2.013.423,15 €



Yolanda Nicolau (FVMP) -Project Coordinator



LOCAL4GREEN – Project





II – THE PROJECTS' ACTIVITIES



PILOTS AND INNOVATION ACTIONS

Renewables connecting municipalities through their joint local potential

PROJECT TITLE

COMPOSE - Rural Communities engaged with positive energy

SHORT DESCRIPTION NAME OF THE PILOT The action promotes Renewables connecting municipalities through their joint local potential energy efficiency and LOCATION RES use in public buildings. Feasibility Slovenska Bistrica and Zreče / Slovenia studies and investment plans are foreseen **PARTNERS INVOLVED** to substitute fossil fuels with local energy **Slovene Chamber of Agriculture and Forestry** sources: Associate partners: a) for the energy Municipality Zreče, > renovation of a sport > Municipality Slovenska Bistrica center towards zero energy levels and **NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED** b) a biomass heating 6,400 system covering a BUDGET school's energy needs. 110.000 € TYPE

Pilot project



Renewables connecting municipalities through their joint local potential





17





Energy savings and renewable invest potential in public buildings of Lakatamia Municipality

PROJECT TITLE				
COMPOSE - Rural Comm	unities engaged with positive energy			
SHORT DESCRIPTION	NAME OF THE PILOT			
The action will reduce energy consumption	Energy savings and renewable invest potential in public buildings of Lakatamia Municipality			
in two public	LOCATION			
buildings owned by the Municipality of	Lakatamia / Cyprus			
Lakatamia, through	PARTNERS INVOLVED			
a Building Energy	Lakatamia Municipality			
Management System. An energy saving	NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED			
training campaign have been initiated leading	250 – 300 per month			
to behavioural change	BUDGET			
of building users.	80.000 €			
	ТҮРЕ			
	Pilot project			



Energy savings and renewable invest potential in public buildings of Lakatamia Municipality





From energy savings to RES investments

PROJECT TITLE

COMPOSE - Rural Communities engaged with positive energy

SHORT DESCRIPTION	NAME OF THE PILOT
The pilot impulses a	From energy savings to RES investments
dynamic on energy efficient and RES	LOCATION
solutions uptake for inhabitants, with	Provence-Alpes Côte d'Azur / France
local companies	PARTNERS INVOLVED
cooperation. Home	Group for the Environment, Renewable Energy and Solidarity
energy visits enhance energy diagnosis	NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED
aiming to reduce	
of households and	BUDGET
change and green	
economy in the area.	ТҮРЕ
	Pilot project



From energy savings to RES investments









Awareness campaign to foster social acceptance and local investments of small scale RES

PROJECT TITLE				
COMPOSE - Rural Communities engaged with positive energy				
SHORT DESCRIPTION	NAME OF THE PILOT			
The action demonstrates the	Awareness campaign to foster social acceptance and local investments of small scale RES			
RES applications. A	LOCATION			
web tool for local actors to guickly	Amari-Spili Municipalities, prefecture of Rethymno / Greece			
assess the feasibility	PARTNERS INVOLVED			
is developed using	Technical University of Crete			
analysis. A road show campaign will inform-	Associate partners: > Region of Crete			
communities, to foster	NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED			
enhance local small	People affected: 40,000			
RES investments.	People reached: 85.000 inhabitants at Rethymno prefecture, 600.000 at the region- al level of Crete			
	BUDGET			
	64.500 €			
	ТҮРЕ			
	Pilot project			









Biomass potential in rural island communities

PROJECT TITLE	
COMPOSE - Rural Commu	unities engaged with positive energy
SHORT DESCRIPTION	NAME OF THE PILOT
The pilot analyses the	Biomass potential in rural island communities
impact of traditional fireplaces on indoor/	(The case of Anogeia – Crete)
outdoor air quality and educates	LOCATION
local population to	Anogeia Crete / Greece
environmentally	PARTNERS INVOLVED
systems. A study will	Technical University of Crete
assess the feasibility of a local chips production plant to boost the	Associate partners: > Municipality of Anogeia, Region of Crete
produced biomass.	NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED
	People reached: 25,000
	People affected: 40,000 inhabitants from Anogeia and surrounding mountainous Municipalities (Psiloritis area)
	BUDGET
	60.000 €
	ТҮРЕ
	Pilot project



Biomass potential in rural island communities









From UCO (Used Cooking Oil) to biodiesel

PROJECT TITLE

COMPOSE - Rural Communities engaged with positive energy

Pilot project

SHORT DESCRIPTION	NAME OF THE PILOT
The action aims to	From UCO (Used Cooking Oil) to biodiesel
(Used Cooking Oil)	LOCATION
recycling rate and enhance its safe	Rethymno / Crete
disposal by improving	PARTNERS INVOLVED
with new points and	Technical University of Crete, Renewable and Sustainable Energy Systems Lab
through educational / behavioural change campaigns. The conditions, in which a	 Associate partners: Municipality of Rethymno, Network of the Insular Chambers of Commerce and Industry of the EU;
local UCO-to-biodiesel	NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED
be feasible will be studied, maximising the environmental and financial benefits for	People affected: 55,000 Rethymno Municipality inhabitants People reached: 85,000 Rethymno prefecture inhabitants, 200.000 West Crete inhabitants, indirectly
the pilot area.	BUDGET
	72.000 €
	ТҮРЕ



From UCO to biodiesel





Greening Capalbio energy

PROJECT TITLE

COMPOSE - Rural Communities engaged with positive energy			
SHORT DESCRIPTION	NAME OF THE PILOT		
The behavioural	Greening Capalbio energy		
and tourists towards	LOCATION		
energy efficiency and RES best practices	Capalbio / Italy		
and the increase of	PARTNERS INVOLVED		
local energy mix are	Kyoto Club		
A small scale PV installation on Capalbio	Associate partners: > Italian Local Agenda21 Association		
will assist awareness	NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED		
raising activities.	15,000		
	BUDGET		
	55.000 €		
	ТҮРЕ		
	Pilot project		



Greening Capalbio energy









Energyupgrading in historical rural municipalities

DD		ст т	
	UJE		

COMPOSE - Rural Communities engaged with positive energy

SHORT DESCRIPTION	NAME OF THE PILOT
The pilot action demonstrates the viability of RES technologies, by integrating a PV system into the roof of the Municipality building. The action focuses on raising citizens' interest in BIPV systems on historic buildings and it is expected to foster replications to nearby communities.	Energyupgrading in historical rural municipalities
	LOCATION
	Giove / Italy
	PARTNERS INVOLVED
	Kyoto Club
	Associate partners: > Italian Local Agenda 21 Association
	NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED
	6,500
	BUDGET
	38.000 €
	ТҮРЕ
	Pilot project









RES in rural environments - Sesimbra

PROJECT TITLE

COMPOSE - Rural Communities engaged with positive energy

Pilot project

SHORT DESCRIPTION	NAME OF THE PILOT
This pilot aims at creating energy independence of Sesimbra Natura Park's buildings. A small- scale PV system will be installed and assessed with appropriate energy metering and it is expected to raise awareness and motivate rural communities to adapt similar technologies.	RES in rural environments - Sesimbra
	LOCATION
	Sesimbra / Portugal
	PARTNERS INVOLVED
	Energy and Environment Agency of Arrabida
	NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED
	BUDGET
	ТҮРЕ



RES in rural environments - Sesimbra







RES in rural environments - Biovilla

PROJECT TITLE

This pilot aims at

creating long-term

sustainability of the Biovilla's buildings.

A "living-lab" will be developed allowing test

and assess of solar dehydrators, stoves,

pumps and lamps targeting to raise the

energy awareness

of the community

and create new opportunities for green entrepreneurships.

COMPOSE - Rural Communities engaged with positive energy

SHORT DESCRIPTION

NAME OF THE PILOT

RES in rural environments - Biovilla

LOCATION

Lisboa / Portugal

PARTNERS INVOLVED

Energy and Environment Agency of Arrabida

Associate partners:

> Regional Development Association of the Setubal Peninsula;

NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED

BUDGET

TYPE Pilot project







RES in rural environments - Biovilla





From EE measures to RES investments

PROJECT TITLE **COMPOSE - Rural Communities engaged with positive energy** SHORT DESCRIPTION NAME OF THE PILOT The action aims to From EE measures to RES investments mobilize energy related LOCATION business and general public focusing to Granollers / Spain people with lower income. Demonstrative **PARTNERS INVOLVED** biomass and PV installations will be in **Granollers City Council** place. Wide awareness **NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED** raising campaign will be initiated to enhance 5.250 inhabitants of Palou citizens' behavioural change towards energy BUDGET efficiency and RES. 113.880 € TYPE Pilot project



From EE measures to RES investments









Development of Energy Investment Plan

PROJECT TITLE

COMPOSE - Rural Communities engaged with positive energy

SHORT DESCRIPTION

The pilot targets to

strong cooperation with local authorities

investments on a regional scale. Energy

Investment Plan is expected to initiate

the energy mix.

multi-level governance

principles and lead to

increased RES share in

the establishment of

to develop strategies for sustainable energy Development of Energy Investment Plan

LOCATION

Koprivnica-Krizevci / Croatia

PARTNERS INVOLVED

NAME OF THE PILOT

Regional Energy Agency North

Associate partners:

Koprivnica - Krizevci County >

NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED

110.000

BUDGET

60.715€

TYPE

Pilot project







Interreg Mediterranean COMPOSE





Fostering RES awareness through School Programmes

PROJECT TITLE

This pilot targets

to increase energy

independence and behavioural change

towards the reduction of energy consuption

and the reduction of GHG emissions. A

study for biomass, as public buildings

heating source will

be developed and

a biomass heating system will be installed in a kindergarten for demonstrative reasons.

COMPOSE - Rural Communities engaged with positive energy

SHORT DESCRIPTION

Fostering RES awareness through School Programmes

LOCATION

Kamza Municipality / Albania

PARTNERS INVOLVED

NAME OF THE PILOT

Agricultural University of Tirana

Associate partners:

> Kamza Municipality

NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED

BUDGET

TYPE Pilot project



Kyoto Club awareness









RES for Municipality development

PROJECT TITLE

COMPOSE - Rural Commun

SHORT DESCRIPTION

Municipality of Srebrenik aims to prepare a biomass heating plant reconstruction project to exploit the local biomass potential to be used for heating. An appropriate business model will ensure an innovative approach in involving relevant actors to the local biomass value chain.

unities engaged with positive energy		
NAME OF THE PILOT		
RES for Municipality development		
LOCATION		
Srebrenik / Bosnia and Herzegovina		
PARTNERS INVOLVED		
Srebrenik Municipality		
NB OF INHABITANTS/USERS TO BE AFFECTED/REACHED		
1.000 households informed		
10.000 inhabitants affected		
BUDGET		
30.000 €		
ТҮРЕ		
Pilot project		



Srebrenik



Municipality of Potenza

PROJECT TITLE	
PEGASUS - Promoting Effective Generation And Sustainable UseS of Electricity	
SHORT DESCRIPTION	NAME OF THE PILOT
The pilot is composed by a Combined Heat and Power system (CHP) of 165 kWp which fed a swimming pool and the motors of an escalator of 92 kWp. The main objective of the microgrid is to reduce the primary energy consumed employs remaining energy produced by the CHP to move the escalator.	Municipality of Potenza
	LOCATION
	Potenza/Italy
	PARTNERS INVOLVED
	Municipality of Potenza
	BUDGET
	329,404 €
	ТҮРЕ
	Pilot project



Swimming pool and escalator that compose the microgrid in Potenza









Mega Evydrio

PROJECT TITLE

The microgrid to be

Evydrio includes loads (houses and public

designed for Mega

buildings), power sources (PV systems)

PEGASUS - Promoting Effective Generation And Sustainable UseS of Electricity

SHORT DESCRIPTION

NAME OF THE PILOT

Mega Evydrio

LOCATION

Mega Evydrio Community / Greece

PARTNERS INVOLVED

It is going to red the CO, emissio by introducing F generation at a community leve economic benef be the savings f self-generation.

and storage (batteries). It is going to reduce the CO_2 emissions by introducing RES generation at a community level. The economic benefits will be the savings from	PARTNERS INVOLVED
	Centre for Renewable Energy Sources and Saving
	BUDGET
	212,256 €
	ТҮРЕ
	Pilot project



Rural "Community" of Mega Evydrio



Gozo Island

PROJECT TITLE

PEGASUS - Promoting Effective Generation And Sustainable UseS of Electricity

SHORT DESCRIPTION	NAME OF THE PILOT
Pilot consists on several houses which are interested in taking advantage of photovoltaic energy to reduce the price of electricity, as reducing transmission cost due to the generation is onsite and be energetically independent. It is possible to include energy storage system in the economic model.	Gozo Island
	LOCATION
	Gozo Island, Malta
	PARTNERS INVOLVED
	Malta Intelligent Energy Management Agency
	BUDGET
	162,826 €
	ТҮРЕ
	Pilot project



Air photograph of Gozo Island









Saint-Julien-en-Quint solution

PROJECT TITLE

PEGASUS - Promoting Effective Generation And Sustainable UseS of Electricity

SHORT DESCRIPTION NAME OF THE PILOT

In this village, power outages can occur after strong winds and threaten electricity supply for farmers' cold stores or woodchip boilers and 40 buildings. Mid-term objective is to develop a collective selfconsumption that can help the village to be more independent from local energy sources.

Saint-Julien-en-Quint solution

LOCATION

Saint-Julien-en-Quint

PARTNERS INVOLVED

Regional Energy and Environment Agency in Auvergne-Rhône-Alpes

BUDGET

194,926 €

ΤΥΡΕ

Pilot project



Village representative case of a weak grid



Sports Park Ruše

PROJECT TITLE

PEGASUS - Promoting Effective Generation And Sustainable UseS of Electricity

SHORT DESCRIPTION	NAME OF THE PILOT
The pilot is a large sports recreational facility and has 2 PV plants of 100 kWp. One of their objectives is to do a better control load, that allows to make a better use of the photovoltaic energy produced. For that reason, in their model could be included an energy storage system.	Sports Park Ruše
	LOCATION
	Ruše, Slovenia
	PARTNERS INVOLVED
	Energy Agency of Podravje – Institution for Sustainable Energy Use
	BUDGET
	169,076 €
	ТҮРЕ
	Pilot project



Situation layout of the sports recreational facility





University of Cyprus

PROJECT TITLE

PEGASUS - Promoting Effective Generation And Sustainable UseS of Electricity

SHORT DESCRIPTION NAME OF THE PILOT

The pilot involves the setup of a nanogrid within FOSS. Installed equipment include PV and storage, an EV charging station and the programmable load. Measurements are taken directly from the equipment. Smart meters will be installed in January when the central software management system is operable.

LOCATION

Nicosia, Cyprus

PARTNERS INVOLVED

University of Cyprus

BUDGET

157,386 €

ΤΥΡΕ

Pilot project









Active components of the nanogrid





Preko Island

unstable and reduce

CO₂ emission by using RES.

PROJECT TITLE		
PEGASUS - Promoting Effective Generation And Sustainable UseS of Electricity		
SHORT DESCRIPTION	NAME OF THE PILOT	
The microgrid is composed by 5 consumers and 1 PV	Preko Island	
	LOCATION	
producer, in which there is a direct consumption.	Preko, Croatia	
The microgrid aims are to pay less for the electricity, be example of good practice for other communities especially on island where grid is typically	PARTNERS INVOLVED	
	Municipality Preko	
	BUDGET	
	122,604 €	

TYPE

Pilot project



Air photograph of Preko test-site









Battery Storage System (BSS) with Inverter and Metering System Installation

PROJECT TITLE

STORES - Promotion of higher penetration of distributed PV through storage for all

SHORT DESCRIPTION

Pilot 1 & 2

The pilot installations are 2 public buildings. In each public building, 10 kWp PV already existent. Three 1-ph SMA storage inverter (6.9 kW aggregated) and 20 kWh nominal OPzV batteries will be installed.

Pilot 3

The pilot installation is a public building. 3-ph 10 kWp PV already existent. One 3-ph FRONIUS storage inverter 5 kW and 7.5 kWh nominal Li-Ion batteries will be installed.

Pilot 4

The pilot installation is a residential installation with a fitness center. 3-ph 5 kWp PV already existent. One 3-ph FRONIUS storage inverter 5 kW and 7.5 kWh nominal Li-Ion batteries will be installed.

Pilot 5

The pilot installation is a commercial warehouse (pharmacy) with offices 20 kWp PV already existent (additional 100 kWp feed-in-tariff existent). Three 1-ph SMA storage inverter (6.9 kW aggregated) and 20 kWh nominal OPzV batteries will be installed.

In each pilot, 3 energy meters under Ethernet data communication and with memory will also be installed.

NAME OF THE PILOT

Battery Storage System (BSS) with Inverter and Metering System Installation

LOCATION

Kozani / Greece

PARTNERS INVOLVED

Aristotle University of Thessaloniki

BUDGET

Pilot 1: 17.732 € Pilot 2: 17.732 € Pilot 3: 16.430 € Pilot 4: 16.430 € Pilot 5: 17.732 € (included VAT)

TYPE

Pilot project



Pilot 1







Pilot 3





PILOT 1: Municipality Office Building

PROJECT TITLE	
Battery Storage System (BSS) with Inverter and Metering System Installation	
SHORT DESCRIPTION	NAME OF THE PILOT
The pilot installation is a public building. 10 kWp PV already existent. Three 1-ph SMA storage inverter	PILOT 1: Municipality Office Building
	LOCATION
	Kozani/Greece
(6.9 kW aggregated)	PARTNERS INVOLVED
OPzV batteries will be installed. Additionally, 3 energy meters under Ethernet data communication and with memory will also be installed.	Aristotle University of Thessaloniki
	BUDGET
	17.732 € (included VAT)
	ТҮРЕ
	Pilot project



Kozani Public building







PILOT 2: Former Town-Hall of Ellispontos

PROJECT TITLE

Battery Storage System (BSS) with Inverter and Metering System Installation

SHORT DESCRIPTION

The pilot installation is a public building. 10 kWp PV already existent. Three 1-ph SMA storage inverter (6.9 kW aggregated) and 20 kWh nominal OPzV batteries will be installed. Additionally, 3 energy meters under Ethernet data communication and with memory will also be installed.

PILOT 2: Former	Town-Hall of	Ellispontos

LOCATION

Koilada-Kozani/Greece

NAME OF THE PILOT

PARTNERS INVOLVED

Aristotle University of Thessaloniki

BUDGET

17.732 € (included VAT)

TYPE

Pilot project



Koilada public building



STORES PILOT 3: Town-Hall

PROJECT TITLE

Battery Storage System (BSS) with Inverter and Metering System Installation

SHORT DESCRIPTION	NAME OF THE PILOT
The pilot installation is a public building. 3-ph 10 kWp PV already existent. One 3-ph FRONIUS storage inverter 5 kW and 7.5 kWh nominal Li- lon batteries will be installed. Additionally, 3 energy meters under Ethernet data communication and with memory will also be installed.	PILOT 3: Town-Hall
	LOCATION
	Mavrodendri -Kozani/Greece
	PARTNERS INVOLVED
	Aristotle University of Thessaloniki
	BUDGET
	16.430 € (included VAT)
	ТҮРЕ
	Pilot project



Mavrodendri Town Hall







PILOT 4: Residential Installation

PROJECT TITLE

Battery Storage System (BSS) with Inverter and Metering System Installation

SHORT DESCRIPTION The pilot installation is

a residential installation

with a fitness center. 3-ph 5 kWp PV already

existent. One 3-ph FRONIUS storage

inverter 5 kW and 7.5 kWh nominal Li-

Ion batteries will be

under Ethernet data communication and

be installed.

with memory will also

installed. Additionally, 3 energy meters

PILOT 4: Residential Installation

LOCATION

Koila -Kozani/Greece

NAME OF THE PILOT

PARTNERS INVOLVED

Aristotle University of Thessaloniki

BUDGET

16.430 € (included VAT)

TYPE

Pilot project



Koila residential installation



PILOT 5: Commercial warehouse and offices

PROJECT TITLE

Battery Storage System (BSS) with Inverter and Metering System Installation

SHORT DESCRIPTION

The pilot installation is a commercial warehouse (pharmacy) with offices 20 kWp PV already existent (additional 100 kWp feed-in-tariff existent). Three 1-ph SMA storage inverter (6.9 kW aggregated) and 20 kWh nominal **OPzV** batteries will be installed. 3 energy meters under Ethernet data communication and with memory will also be installed.

PILOT 5	Commercial	warehouse	and	offices
	Commercial	warenouse	anu	Unices

LOCATION

Vatero -Kozani/Greece

NAME OF THE PILOT

PARTNERS INVOLVED

Aristotle University of Thessaloniki

BUDGET

17.732 € (included VAT)

TYPE

Pilot project



Vatero commercial warehouse





PILOTS / SPAIN

PROJECT TITLE

PILOTS / SPAIN

SHORT DESCRIPTION

All facilities selected for the pilot carried out by SARGA , were selected through public call, This public call contained some parameters based on the objectives of the project stores.

Size of the municipality where the facility is located: Being in a municipality of less than 5000 inhabitants (titrated, not eliminated): 10 points. The last official municipal register available will be consulted.

- > Bulletin: it has been valued to present the Bulletin of the electrical installation: up to 25 points, based on the following gradation
- > Bulletin with an age equal to or greater than 10 years: 0 points
- > Bulletin with less than 10 years old: 5 points
- > Bulletin with less than 5 years old: 15 points
- > Bulletin with less than 2 years old: 25 points
- > Availability of mobile coverage: 5 points
- Technical complexity of the installation (subjective criterion): up to 60 points
- > Ease of access: up to 10 points
- > Adaptation of the location to locate batteries: up to 10 points
- > Adaptation of existing photovoltaic panels: up to 10 points
- > Adaptation of existing electrical infrastructures: up to 10 points
- > Adaptation of the existing investor: up to 10 points
- > Have a previous installation of batteries: up to 10 points

NAME OF THE PILOT

PILOTS / SPAIN

LOCATION

Aragón / Spain

PARTNERS INVOLVED

SARGA

BUDGET

60.000 €

TYPE

Pilot project

	Pilot 1	Pilot 2	Pilot 3	Pilot 4	Pilot 5
Municipality	Sadaba	Zaragoza	Zaragoza	Langa de Castillo	Zaragoza
Adress	Crta Carcastillo	Calle Biel	Paseo Reyes Aragón	Calle Alta	Avda Ilustración
Installed power (kWp)	5.550	3.180	4.240	4.160	4.320
Annual consumption (kWh)	6.958	3.139	7.370	4.200	21.220
Number of solar panels	30	12	16	16	16
Power (each panel)	185	265	265	260	270







SÁDABA PILOT 1 P.M / SPAIN

PROJECT TITLE		
PILOTS / SPAIN		
SHORT DESCRIPTION	NAME OF THE PILOT	
It is a detached house located in the town of Sádaba within the province of Zaragoza, meets the requirements	SÁDABA PILOT 1 P.M / SPAIN	
	LOCATION	
	Sádaba / Spain	
of isolated rural area	PARTNERS INVOLVED	
technical criteria marked in the call	SARGA	
	BUDGET	
	10.226,87 €	
	ТҮРЕ	
	Pilot project	









CALLE BIEL PILOT 2 CM / SPAIN

PROJECT TITLE	
PILOTS / SPAIN	
SHORT DESCRIPTION	NAME OF THE PILOT
It is a detached house located in the town of Zaragoza within the province of Zaragoza, meets all the technical	CALLE BIEL PILOT 2 CM / SPAIN
	LOCATION
	Zaragoza / Spain
requirements set in the	PARTNERS INVOLVED
this installation is minor because it had part of the pre-installation made	SARGA
	BUDGET
	6.130 €
	ТҮРЕ
	Pilot project







REYES DE ARAGÓN PILOT 3 JAS / SPAIN

PROJECT TITLE	
PILOTS / SPAIN	
SHORT DESCRIPTION	NAME OF THE PILOT
It is a detached house	REYES DE ARAGÓN PILOT 3 JAS / SPAIN
Zaragoza within the	LOCATION
province of Zaragoza, meets all the technical	Zaragoza / Spain
requirements set in the	PARTNERS INVOLVED
Call.	SARGA
	BUDGET
	10.023,06 €
	ТҮРЕ
	Pilot project









LANGA PILOT 4 / SPAIN

PROJECT TITLE	
PILOTS / SPAIN	
SHORT DESCRIPTION	NAME OF THE PILOT
It is a detached house	LANGA PILOT 4 / SPAIN
with a small cheese farm attached to it. It's located in the town of Langa del Castillo within the province of Zaragoza, meets the requirements of isolated rural area and with the other technical criteria marked in the call	LOCATION
	Langa Del Castillo / Spain
	PARTNERS INVOLVED
	SARGA
	BUDGET
	10.023,06 €
	ТҮРЕ
	Pilot project





ILUSTRACIÓN PILOT 5 C.B. / SPAIN

PROJECT TITLE	
PILOTS / SPAIN	
SHORT DESCRIPTION	NAME OF THE PILOT
It is a detached house located in the town of Zaragoza within the province of Zaragoza, meets all the technical	ILUSTRACIÓN PILOT 5 C.B. / SPAIN
	LOCATION
	Zaragoza / Spain
requirements set in the	PARTNERS INVOLVED
cait.	SARGA
	BUDGET
	11.050 €
	ТҮРЕ
	Pilot project







StoRES_Pilots_MoU

PROJECT TITLE

StoRES - Promotion of higher penetration of distributed PV through storage for all

SHORT DESCRIPTION

boost levels of PV self-

The objective is to

consumption within the selected pilots

through an optimal storage solution. The

approach is to test PV storage solutions for

the consumers in the

different pilot sites,

taking into account

local parameters for optimization and using

efficiency measures.

NAME OF THE PILOT StoRES_Pilots_MoU

LOCATION

Ussaramanna, Sardinia - Italy

PARTNERS INVOLVED

- > Municipality of Ussaramanna,
- > Autonomous Region of Sardinia,
- > University of Cagliari Italy

BUDGET

198.850,00 €

TYPE

Pilot project



StoRES_Pilots_MoU





STORES StoRES_Pilots_CY

PROJECT TITLE

StoRES - Promotion of higher penetration of distributed PV through storage for all

SHORT DESCRIPTION

University of Cyprus as the lead partner of the project is responsible for the installation and operation of five pilots, namely four 10 kWh residential and one 50 kWh community storage systems which share the same Low-Voltage feeder. The main objective for residential systems is to increase self-consumption and hence reduce surplus electricity that is injected to the grid. This can be achieved by applying an optimal energy management scheme and also by taking into account local parameters for optimization. In addition to this, community storage system will allow for the investigation of the optimal storage share between centralized and distributed storage. NAME OF THE PILOT StoRES_Pilots_MoU

LOCATION

Strovolos, Nicosia – Cyprus

PARTNERS INVOLVED

University of Cyprus

BUDGET

€ 591.868,75

TYPE

Pilot project



StoRES_Pilots_CY



II – THE PROJECTS' ACTIVITIES





Barriers and potential solutions for increasing biomass production in the protected areas.

PROJECT TITLE	
ForBioEnergy - Forest Bi	oenergy in the Protected Mediterranean Areas
SHORT DESCRIPTION	NAME OF THE PILOT
Examination of the legislative, administrative, technical, social and economic barriers and the possible solutions across the forest-based bioenergy value chain, useful to identify the recommendations for	Barriers and potential solutions for increasing biomass production in the protected areas.
	Italy: Regional Natural Park of Madonie (Sicily Region) Slovenia: Seasonal lakes of Pivka Nature Park and Škocjan Caves Regional Park (Notranjski krajinski park and Primorsko-notranjska region) Spain: Region of Valencia (Comunitat Valenciana) Croatia: Nature Park Velebit, Nature Park Telašćica, Nature park Vransko jezero (Zadar and Zadar Ličko-Senjska županija)
the key actors in order	PARTNERS INVOLVED
to implement a new regulatory framework and permit route concerning biomass use in the protected areas.	Italy > Sicily Region – Councillorship for Agriculture, Rural Development and Mediterranean Fishing – Regional Department for the Rural and Territorial Development > Municipality of Petralia Sottana > Enviland Itd Slovenia > Slovenian Forestry Institute > Regional Development Agency Green Kast Ltd Spain > The Forestry Municipalities Association of Comunitat Valenciana (Coordinator of the Pilot Action) > Valencia Official Chamber of Commerce, Industry, Services and Shipping. Croatia > Zadar County > Pubblic Institution Nature Park Velebit
	BUDGET
	ТҮРЕ
	Study
	FLOW CHART MODEL



Forest-based bioenergy value chain

Barriers & potential solutions







Planning biomass-based energy production at regional and sub-regional level in protected areas

PROJECT TITLE	
ForBioEnergy - Forest Bi	oenergy in the Protected Mediterranean Areas
SHORT DESCRIPTION	NAME OF THE PILOT
Definition of a methodology for	Planning biomass-based energy production at regional and sub-regional level in protected areas
district in which	LOCATION
develop energy supply chains compatible with the environmental protection principles and the socio-economic	Italy: Regional Natural Park of Madonie (Sicily Region) Slovenia: Seasonal lakes of Pivka Nature Park and Škocjan Caves Regional Park (Notranjski krajinski park and Primorsko-notranjska region) Croatia: Nature Park Velebit, Nature Park Telašćica, Nature park Vransko jezero (Zadar and Zadar Ličko-Senjska županija)
support the public	PARTNERS INVOLVED
authorities in the bioenergy planning a DSS will also be developed.	Italy > Sicily Region – Councillorship for Agriculture, Rural Development and Mediterranean Fishing – Regional Department for the Rural and Territorial Development (Coordinator of the Pilot Action) > Municipality of Petralia Sottana > Enviland Itd Slovenia > Slovenian Forestry Institute > Regional Development Agency Green Kast Ltd Croatia > Zadar County > Pubblic Institution Nature Park Velebit
	BUDGET
	123.565,00 €
	ТҮРЕ
	Planning & Mapping GIS tool
	Planning biomass-based energy production







Threats and benefits of increase the biomass use in the protected areas

PROJECT TITLE	
ForBioEnergy - Forest Bi	oenergy in the Protected Mediterranean Areas
SHORT DESCRIPTION	NAME OF THE PILOT
Assessment of risks	Threats and benefits of increase the biomass use in the protected areas
environmental (biotic	LOCATION
and abiotic) and socio- economic components arising from the extraction of biomass by establishing and implementing a set	Italy: Regional Natural Park of Madonie (Sicily Region) Slovenia: Seasonal lakes of Pivka Nature Park and Škocjan Caves Regional Park (Notranjski krajinski park and Primorsko-notranjska region) Spain: Enguera (Comunitat Valenciana) Croatia: Nature Park Velebit, Nature Park Telašćica, Nature park Vransko jezero (Zadar and Zadar Ličko-Senjska županija)
assessment of impacts	PARTNERS INVOLVED
assessment of Impacts in the short, medium and long period.	Italy > Sicily Region – Councillorship for Agriculture, Rural Development and Mediterranean Fishing – Regional Department for the Rural and Territorial Development > Municipality of Petralia Sottana > Enviland Itd (Responsible partner) Slovenia > Slovenian Forestry Institute > Regional Development Agency Green Kast Ltd Spain > The Forestry Municipalities Association of Comunitat Valenciana Croatia > Zadar County > Pubblic Institution Nature Park Velebit
	BUDGET
	108.990,00 €
	ТҮРЕ
	Action





Threats and benefits of increase the biomass use

in the protected areas

Pro Re





Action plan for a new regulatory framework and permit route in the protected areas

PROJECT TITLE	
ForBioEnergy - Forest Bi	oenergy in the Protected Mediterranean Areas
SHORT DESCRIPTION	NAME OF THE PILOT
Description of the actions to be implemented by the relevant bodies for the drafting of a new regulatory framework and permit route aimed to remove administrative and	Action plan for a new regulatory framework and permit route in the protected areas
	LOCATION
	Italy: Regional Natural Park of Madonie (Sicily Region) Slovenia: Seasonal lakes of Pivka Nature Park and Škocjan Caves Regional Park (Notranjski krajinski park and Primorsko-notranjska region) Spain: Region of Valencia (Comunitat Valenciana) Croatia: Nature Park Velebit, Nature Park Telašćica, Nature park Vransko jezero (Zadar and Zadar Ličko-Senjska županija)
that hinder the use	PARTNERS INVOLVED
of biomass in the protected areas.	Italy > Sicily Region – Councillorship for Agriculture, Rural Development and Mediterranean Fishing – Regional Department for the Rural and Territorial Development > Municipality of Petralia Sottana > Enviland Itd Slovenia > Slovenian Forestry Institute > Regional Development Agency Green Kast Ltd Spain > The Forestry Municipalities Association of Comunitat Valenciana (Coordinator of the Pilot Action) > Valencia Official Chamber of Commerce, Industry, Services and Shipping Croatia > Zadar County > Public Institution Nature Park Velebit
	BUDGET
	137.510,00 €
	ТҮРЕ
	Governance tool
	New regulatory framework to enhance the integral use of forest biomass in the protected areas





Action plan for a new regulatory framework



Biomass oriented forest planning at local level in the protected areas

PROJECT TITLE		
ForBioEnergy - Forest Bioenergy in the Protected Mediterranean Areas		
SHORT DESCRIPTION	NAME OF THE PILOT	
A forest management	Biomass oriented forest planning at local level in the protected areas	
at the biomass district	LOCATION	
level. For each forest type best forestry practices will be identified in order to preserve and conserve forest ecosystems and	Italy: Regional Natural Park of Madonie (Sicily Region) Slovenia: Seasonal lakes of Pivka Nature Park and Škocjan Caves Regional Park (Notranjski krajinski park and Primorsko-notranjska region) Spain: Enguera (Comunitat Valenciana) Croatia: Nature Park Velebit, Nature Park Telašćica, Nature park Vransko jezero (Zadar and Zadar Ličko-Senjska županija)	
that may be available	PARTNERS INVOLVED	
for the production of energy and heat.	Italy > Sicily Region – Councillorship for Agriculture, Rural Development and Mediterranean Fishing – Regional Department for the Rural and Territorial Development > Municipality of Petralia Sottana > Enviland ltd (Responsible partner) Slovenia > Slovenian Forestry Institute > Regional Development Agency Green Kast Ltd Spain > The Forestry Municipalities Association of Comunitat Valenciana Croatia > Zadar County > Pubblic Institution Nature Park Velebit	
	BUDGET	
	150.495,00 €	
	ТҮРЕ	
	Planning tool	
	Biomass oriented forest planning	



Mediterranean ForBioEnergy





Planning sustainable forest-wood-energy supply chain in the protected areas

PROJECT TITLE ForBioEnergy - Forest Bioenergy in the Protected Mediterranean Areas SHORT DESCRIPTION NAME OF THE PILOT A sustainable forest-Planning sustainable forest-wood-energy supply chain in the protected areas wood-energy supply LOCATION chains within the biomass districts Italy: Regional Natural Park of Madonie (Sicily Region) will be planned Slovenia: Seasonal lakes of Pivka Nature Park and Škocjan Caves Regional Park with defining low (Notranjski krajinski park and Primorsko-notranjska region) environmental impact Spain: Region of Valencia (Comunitat Valenciana) work systems, efficient Croatia: Nature Park Velebit, Nature Park Telašćica, Nature park Vransko jezero biomass production (Zadar and Zadar Ličko-Senjska županija) and extraction systems, sustainable **PARTNERS INVOLVED** management models and technical conditions Italy (storage of biomass, > Sicily Region - Councillorship for Agriculture, Rural Development and power plants). Mediterranean Fishing - Regional Department for the Rural and Territorial Development Municipality of Petralia Sottana > > Enviland ltd Slovenia **Slovenian Forestry Institute** Regional Development Agency Green Kast Ltd > Spain The Forestry Municipalities Association of Comunitat Valenciana (Coordinator > of the Pilot Action) Valencia Official Chamber of Commerce, Industry, Services and Shipping \mathbf{i} Croatia > Zadar County **Public Institution Nature Park Velebit** > BUDGET 127.275,00 € TYPE Planning tool Planning sustainable METLA forest-wood-energy supply chain







Quality requirements of biomass from the protected areas

PROJECT TITLE

A traceability protocol will be set, adjusted to

the specific regulatory framework and

authorization process

of the protected areas.

It will take into account

management standards

sustainable forest

and internationally aligned certification

schemes for forest biomass production in

protected areas.

ForBioEnergy - Forest Bioenergy in the Protected Mediterranean Areas

SHORT DESCRIPTION NAME OF THE PILOT

Quality requirements of biomass from the protected areas

LOCATION

 Italy: Regional Natural Park of Madonie (Sicily Region)
 Slovenia: Seasonal lakes of Pivka Nature Park and Škocjan Caves Regional Park (Notranjski krajinski park and Primorsko-notranjska region)
 Spain: Enguera (Comunitat Valenciana)
 Croatia: Nature Park Velebit, Nature Park Telašćica, Nature park Vransko jezero (Zadar and Zadar Ličko-Senjska županija)

PARTNERS INVOLVED

Italy

- Sicily Region Councillorship for Agriculture, Rural Development and Mediterranean Fishing – Regional Department for the Rural and Territorial Development
- > Municipality of Petralia Sottana
- > Enviland ltd
- Slovenia
- > Slovenian Forestry Institute

> Regional Development Agency Green Kast Ltd (Coordinator of the Pilot Action) **Spain**

- > The Forestry Municipalities Association of Comunitat Valenciana
- > Valencia Official Chamber of Commerce, Industry, Services and Shipping

Croatia

- > Zadar County
- > Pubblic Institution Nature Park Velebit

BUDGET

124.215,00 €

TYPE

Management tool



Quality requirements for biomass from the protected areas











PRISMI

Toolkit/Methodology

PROJECT TITLE

PRISMI - Promoting RES integration for smart Mediterranean islands

SHORT DESCRIPTION

MAPPING GIS TOOL

PRISMI aims at developing an integrated tool, tailored to MED islands, able to assess and map RES potential. The integration of GIS and energy system models allows taking into consideration spatial constraints and potentials and thus enables to obtain a complete picture while designing energy systems.

PLANNING TOOL

PRISMI methodology is based on three tools: the first is EnergyPLAN that is used for energy scenarios modelling, enhanced during the project, and the other tools specifically developed by PRISMI, respectively the Wind Power Calculator that generates wind power production hourly time series and the Load-flow Tool that analyses RES impact on the grid. The last tool is post-processing tool that helps users interpret results and use them for SEAPs development.

GOVERNANCE TOOL

PRISMI integrated toolkit objective is to assist and support MED small island municipalities and local decision makers in their energy planning process. To demonstrate its potential, PRISMI will develop 5 preliminary Sustainable Energy Action Plans for the different study areas.

PRISMI toolkit is applicable to all MED islands.

NAME OF THE PILOT

Toolkit/Methodology

OCATION

- > Favignana, Italy
- > Korcula & Vis, Croatia
- > Tilos, Greece
- > Gozo Region, Malta
- > Akamas Peninsula, Cyprus

PARTNERS INVOLVED

ALL

BUDGE1

ALL

TYPE

Mapping GIS, Planning and Governance tool



PRISMI – Toolkit



II – THE PROJECTS' ACTIVITIES





LOCAL4GREEN

Designing of local fiscal policies to promote RES

PROJECT TITLE

LOCAL4GREEN - LOCAL Policies for GREEN Energy

SHORT DESCRIPTION

The partners have been applying two tools in the pilot municipalities.

Planning tool - The Handbook for green local fiscal policy formulation. It has been used by the partners to select and design the local fiscal policies to promote the RES. The methodology is structured in four stages: Plan, Do, Control and Improve. There are 20 steps in total, numbered from 0 to 19, to select and design the local fiscal policies according to legal, technical and economic constraints. Such steps encompass citizens participation as well as mainstream social inclusion.

Governance tool - The local fiscal policies to promote the RES. They have been/ are being formulated for each pilot municipalities. Even if the local fiscal policies vary considerably according to the legal framework of each country/ region, most of the partners are designing measures to be applied to promote RES through the following local taxes/fees: property tax, fees for use or occupation of public land, fees for building work permits and touristic tax. In most of the pilots, reductions of such taxes/fees are being planned for the taxpayers that use RES. In other pilots, an increase of the municipal taxes/fees is being planned to create a municipal fund ("Green mechanism fund") to promote RES.

NAME OF THE PILOT Designing of local fiscal policies to promote RES LOCATION

- Spain: Muro de Alcoy, Dolores, Pedreguer, Godella, Almussafes, Xeresa, Alaquas, Callosa d'en Sarria, L'Alfas del Pi, Altea, Quart de Poblet,
- > Albania: Kuke, Lezhe, Vau Dejes.
- > **Cyprus**: Nicosia, Aradippou, Lythrodontas, Lakatamia.
- Croatia: Brdovec, Dugo Selo, Jastrebarsko, Klanjec, Pregrada.
- Greece: Edessa, Thermi, Lagadas, Pilea-Hortiatis, Volvi, Sithonia, Kozani.
- Malta: Fontana, Għajnsielem, Għarb, Għasri, Kerċem, Munxar, Nadur, Qala, Rabat (Victoria), San Lawrenz, Sannat, Xagħra, Xewkija, Żebbuġ.
- Portugal: Aljezur, Monchique, Faro, Loulé, São Brás de Alportel, Castro Marim.
- > Slovenia: Kočevje, Kamnik, Grosuplje, Trebnje, Ivančna Gorica, Lenart, Križevci, Kranj.
- > **Italy**: Velletri, Albano Laziale, Ventotene, Bassano in Teverina, Rocca Priora, Formello, Olevano Romano.

PARTNERS INVOLVED

All partners are involved

BUDGET

834.391,95 €

TYPE

Planning tool + Governance tool













COMPOSE | PEGASUS | STORES | FORBIOENERGY | PRISMI | LOCAL4GREEN